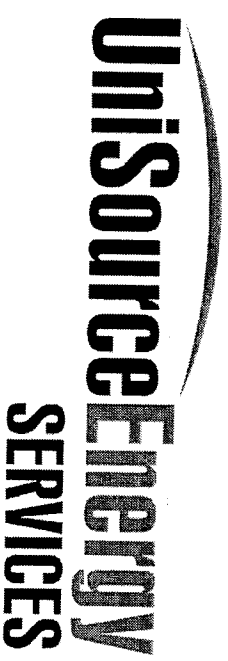


**ACC DSM Workshop  
February 13, 2004**

**Proposed Program Development  
For  
UNS Electric**



### DSM Workshop Proposal UNS Electric - New Residential Segment

<b>Program Name</b>	<b>Description</b>	<b>DSM Measures</b>	<b>Other Considerations</b> (Feasibility, market share, MT effect)	<b>Participants</b> (est #/yr)	<b>Est Annual Savings</b> (MW)	<b>Est Annual Savings</b> (MWh)	<b>Est Annual Spending</b> (\$,000)
Academic Education	Education programs for K-12 schools. (Energy Patrol)	No defined measures.	Feasibility - high	NA	0.0	0	\$10,000
Residential HVAC Program	\$500 Rebate to replace an existing HVAC unit.	Societal test	Feasibility - high	45	0.027	51.50	\$33,334
Customer Education	Trade shows - energy conservation information	MT	Feasibility - high	NA	0.0	0	\$5,000
On-Line Energy Advisor	On-line energy audit with bill history download	No defined measures.	MT	2,500	0.0	0	\$12,500
Low-Income Weatherization Program	Weatherization of homes for low income customers	Societal test	See Note 1	44	0.0	0	
<b>Measurement and Verification</b> It will be necessary to create a database to measure and verify energy savings for programs. Routine reports will be generated to determine energy savings, and TEP will report results in its semi-annual and year-end DSM reports.							
<b>TOTAL</b>				<b>2,589</b>	<b>0.0</b>	<b>52</b>	<b>\$60,834</b>

DSM Workshop Proposal UNS Electric - Commercial/Industrial/Institutional Segment							
Program Name	Description	DSM Measures	Other Considerations (Feasibility, market share, MT effect)	Participants (est #/yr)	Est Annual Savings (MW)	Est Annual Savings (MWH)	Est Annual Spending (\$,000)
C&I Lighting Program	Rebates up to \$500 per customer are offered for the installation of efficient lighting systems in new and existing facilities.	Societal test	Feasibility - high	63	0.019	34.0	\$43,333
On-Line Energy Audit	On-line energy audit with bill download history	No defined measures	Feasibility - high	100	0.0	0	\$12,500
Commercial HVAC Program	Rebates (\$500) are offered for installation of unitary air conditioners, heat pumps, and chillers.	Societal test	Feasibility - high	95	0.095	171.0	\$58,333
<b>Measurement and Verification</b>	It will be necessary to create a database to measure and verify energy savings for programs. Routine reports will be generated to determine energy savings, and TEP will report results in its semi-annual and year-end DSM reports.						
<b>TOTAL</b>				<b>258</b>	<b>0.1</b>	<b>205</b>	<b>\$114,166</b>

DSM Workshop - Proposed DSM Portfolio UNS Electric													
DSM SPENDING		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Total DSM Spending (\$,000)		\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$1,925,000
Existing Residential/Low Income		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Residential New Construction		\$60,834	\$60,834	\$60,834	\$60,834	\$60,834	\$60,834	\$60,834	\$60,834	\$60,834	\$60,834	\$60,834	\$669,174
Commercial/Industrial/Institutional		\$114,166	\$114,166	\$114,166	\$114,166	\$114,166	\$114,166	\$114,166	\$114,166	\$114,166	\$114,166	\$114,166	\$1,255,826
Expenditure Impact on Rates (%)													
ENERGY/DEMAND SAVINGS													
Cumulative Annual Effect (mW)		0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.3	1.4	1.6	1.6
Annual Peak Demand Savings (mW)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Existing Residential/Low Income		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential New Construction		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Industrial/Institutional		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cumulative Annual Effect (mWh)		257	513	770	1,026	1,283	1,539	1,796	2,052	2,309	2,565	2,822	2,822
Annual Energy Savings (mWh)		257	257	257	257	257	257	257	257	257	257	257	257
Existing Residential/Low Income		0	0	0	0	0	0	0	0	0	0	0	0
Residential New Construction		52	52	52	52	52	52	52	52	52	52	52	52
Commercial/Industrial/Institutional		205	205	205	205	205	205	205	205	205	205	205	205
Lifetime Energy Savings (mWh)													
COST EFFECTIVENESS													Average
Spending per KW peak savings (\$/kW)		1,241,135	1,241,135	1,241,135	1,241,135	1,241,135	1,241,135	1,241,135	1,241,135	1,241,135	1,241,135	1,241,135	1,241,135
Spending per annual kWh savings (\$/kWh)		682	682	682	682	682	682	682	682	682	682	682	682
Spending per lifetime kWh savings (\$/kWh)		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

# Commercial Solar HVAC

- Solar assisted HVAC, using ad/absorption chillers, is becoming common in Europe.
  - For example, So Cool Energy, Inc. (an Arizona company) utilizes technology that has been deployed in Europe since 1992 for DHW and space heating and since 2001 for air conditioning. Each of our projects is guaranteed to reduce the consumption of fossil fuel for DHW and HVAC purposes by *over 60 %*, for a net cost savings of up to *20%*.
- So Cool's technology alone currently accounts for *7 out of the 35 largest* solar plants worldwide in the last 5 years. Project sizes range from 1,000 to 200,000 square feet.
- There are numerous other foreign companies and a few U.S. companies developing this technology.

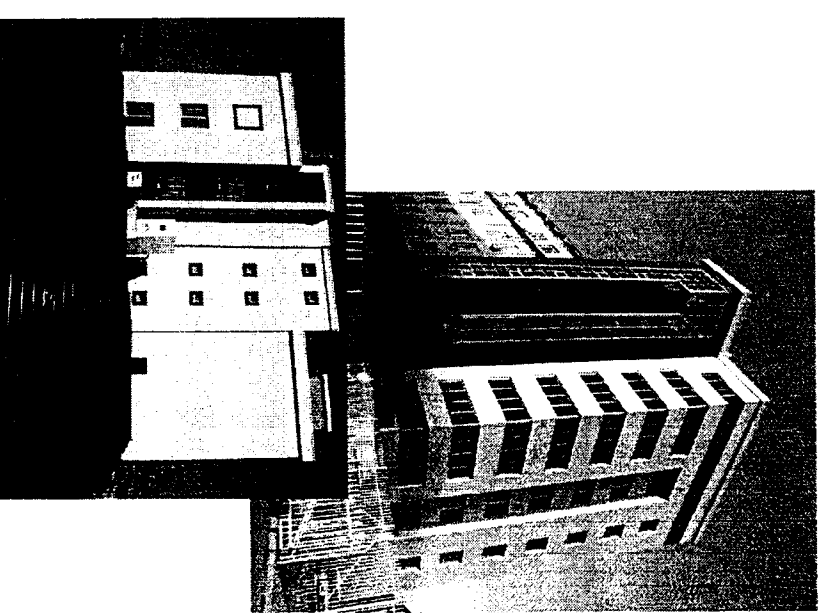


The Arnold Schwarzenegger Stadium  
in Graz, Austria

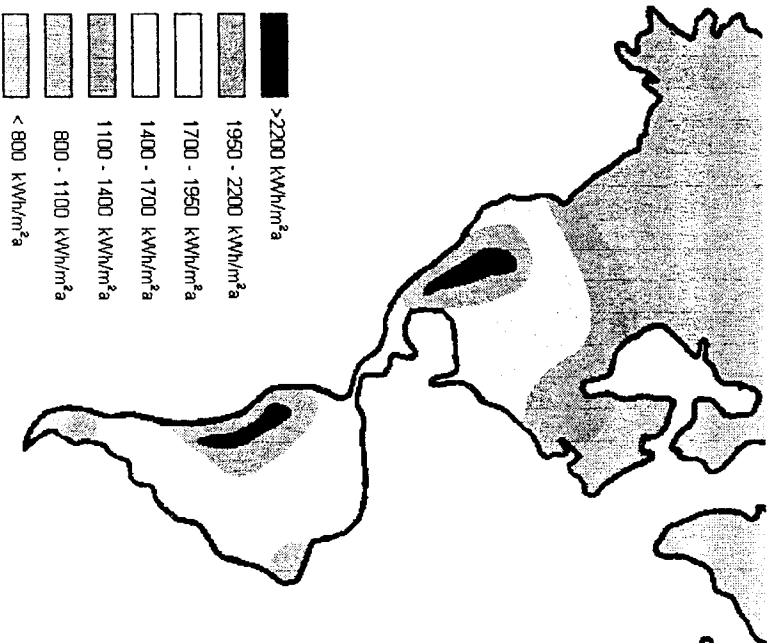
# *Solar HVAC Case Study*

## Office building for European Agency for Reconstruction in Kosovo

- 25,300 sq ft, nine story building
- 2,500 sq ft of solar collectors
- Cooling load 108 kW /30 tons
- Heating load 170 kW
- Solar covers 75% of cooling, 20% of heating, and 100% of hot water requirements
- Rebuilt in 2002/2003 – Operational March 2003



# *U.S. Potential is Huge*



The U.S., especially in the Southwest, has a tremendous solar resource. Austria has solar radiation comparable to southern Alaska.



## *European Union Advances\**

- Solar Thermal Growth in the 1990s – 13.6%
- Employs over 80,000  
(Total population = 200 million)
- Total Square Footage at the end of 2003 – 165 million  
(Per 1,000 capita - 850 square feet)
- Goal for 2020 for all Renewables – 20%

Solar thermal is expected to occupy almost 2% of the total renewable market compared to its current 0.02%

- Projected additional employment for solar thermal is 200,000
- In Europe, “extension to large scale applications and heating and cooling will help to increase the market share.”

\* Sources – European Conference for Renewable Energy, January 2004; European Solar Thermal Industry Federation



# *Energy Efficiency Opportunity*

## Solar Plus Energy Efficiency

- SWEET has pointed out the benefits of energy efficiency.
- Solar, combined with energy efficiency measures, can increase both sectors.
- Current cost of Commercial Solar HVAC - \$.50-\$1.50 per watt

## Energy Service Performance Contracting for Solar HVAC

- Energy provider plans, constructs, and finances the facilities.
- With a small customer down-payment, the provider and customer share the long-term savings over a 15-20 year fixed-price contract. In some instances, such as with So Cool, *zero* capital investment is required by the customer.
- The energy savings are guaranteed.

## **APS Proposal for Cost Effective DSM Policy**

**DSM Workshop  
2/13/04  
Tom Hines**



## **Current State of Energy Efficiency in Arizona**

### **Energy Efficiency in Arizona**

- Spending does not equal results
- Arizona has been held up as an example of a market based approach to energy efficiency
  - ☐ 2002 National Energy and Environmental Building Association conference
  - ☐ Energy Star awards

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### **How Efficient Are We?**

Arizona is ahead of the nation in many ways

- Phoenix leads nation in guaranteed heating/cooling and Energy Star homes
- Low E windows - 50% market penetration

- Approximately 90% of replacement HVAC market is 12 SEER or higher

- Much newer building stock than most states
- Active ESCO market

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### **So What's Driving Arizona's Load Growth?**

- Population and economic growth
- Larger homes
  - ☐ More energy efficient, but larger
  - ☐ Average square footage increase of more than 20% since 1980's
- More consumer electronic devices
  - ☐ Computers, cell phones, DVD's, etc.
- More business office equipment

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### **Developing Program Ideas**

### **Program Considerations**

- APS experience/program history
- Other utility programs
- SWEEP recommendations
- Market transformation opportunities

### **Program Considerations**

- Diversity of programs
- Cost effectiveness
- Equity
- Customer interest/acceptance
- Demand and energy savings
  - ☐ Saving peak demand is key

### **Proposed DSM Programs**

### **Residential New Construction**

- Already achieving significant results
- Increase funding to:
  - ☐ Increase market penetration of Performance Built Homes
  - ☐ Conduct additional building science training
  - ☐ Expand outside metro area

### **Residential Existing Homes**

- Expand existing successful programs
  - ☐ Qualified Contractor program
  - ☐ On-line audit (add functionality)
- Home performance tests
  - ☐ Energy Management Council contractors
- New educational campaign to promote high efficiency AC (co-op advertising)
- TOU education
- Explore pilot of direct load control

### **Low Income Weatherization**

- Expand existing program
- Increase funding limit per household
- Raise minimum income requirements
- Remove restriction for owner-occupied housing

## Commercial/Industrial/Institutional

- Continue/expand current programs
  - ☐ APS Power Partners
  - ☐ Building Operator Certificate
- Energy Profile Info/Demand Response
- Cool Roofs program
- Design Assistance/Building Science Seminars (target schools)
- Partner/Sponsor US Green Building Council and LEEDS certification

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## Measurement and Evaluation

- Residential New Construction –
  - ☐ APS partnership with Advanced Energy/EPA to study Phoenix homes
- Existing Residential –
  - ☐ Follow up to MT baseline surveys
  - ☐ Qualified Contractor phone customer surveys
  - ☐ Home performance test results
- Commercial –
  - ☐ Building Operator follow-up
  - ☐ MT baseline and follow-up surveys

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## DSM Policy Recommendations

- Utilities:
  - ☐ MT approach works - expand existing MT efforts and add new MT programs
- Legislative:
  - ☐ State and municipal buildings
    - Clarification on shared savings
  - ☐ Commercial building energy code
    - More cost effective and equitable
    - Explore a commercial code

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## DSM Proposal Summary

- Funding level of \$3 million
- Estimated annual savings =
  - ☐ 44.7 MW peak demand
  - ☐ 102,690 MWH energy

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### DSM Workshop Proposal (APS) - New Residential Segment

Program Name	Description	DSM Measures	Other Considerations (Feasibility, market share, MT effect)	Participants (est #/yr)	Est Annual Savings (MW)	Est Annual Savings (MWH)	Est Annual Spending (\$,000)
Building Science Training/Infrared Research/Improved Duct Sealing (expanded)	<ul style="list-style-type: none"> <li>• Highly successful training that has produced results</li> <li>• Still significant ongoing need</li> <li>• Additional training in metro area and expand to rural areas</li> </ul>	Promotes building science principles to builders. Measures undertaken include improved insulation, framing, air barrier, duct sealing, etc.	<ul style="list-style-type: none"> <li>• Each training session influences many homes</li> <li>• Highly cost effective</li> <li>• Good persistence, builders see value</li> </ul>	11,100	7.7	16,650	\$120
Performance Built Home Program (expanded)	<ul style="list-style-type: none"> <li>• Successful program with significant results</li> <li>• Currently limited promotion – expand recognition</li> <li>• Expand to growth areas outside Phoenix</li> </ul>	Compared to typical homes, package of measures includes low E windows, downsized AC, better insulation/air barrier, tight envelope/ducts, advanced framing, pressure balancing, ventilation	<ul style="list-style-type: none"> <li>• Significant construction improvements</li> <li>• All are Energy Star plus performance</li> <li>• More branding could achieve higher penetration</li> </ul>	4,500	11.2	15,750	\$350
<b>Measurement and Verification</b>	For residential new construction, homes are being field tested for performance prior to occupancy. In addition, builders offer a written guarantee of performance. Additional M&V will result from a current study being conducted on Phoenix area housing by EPA/Advanced Energy. APS is participating in this study to determine actual usage differences between standard construction, Energy Star and guaranteed homes.						\$30
<b>TOTAL</b>				<b>15,600</b>	<b>18.9</b>	<b>32,400</b>	<b>\$500</b>

NOTE: Estimated spending levels do not include net lost revenue or any other financial incentive. All savings shown are preliminary estimates.

# DSM Workshop Proposal (APS) - Existing Res/Low Income Segment

Program Name	Description	DSM Measures	Other Considerations (Feasibility, market share, MT effect)	Participants (est #/yr)	Est Annual Savings (MW)	Est Annual Savings (MWh)	Est Annual Spending (\$,000)
Low Income Weatherization	<ul style="list-style-type: none"> <li>Expand existing low income weatherization program</li> <li>Increase limit on funding per household</li> <li>Increase minimum household income requirements</li> <li>Remove restriction on owner-occupied housing</li> </ul>	HVAC repair and replacement (inc evap coolers), building envelope repair/upgrades, some appliances	<ul style="list-style-type: none"> <li>Other states have more liberal income guidelines (i.e. 150% of poverty level)</li> <li>Saves energy and peak</li> <li>Targets customers in need of assistance</li> <li>Increased funding limits allow AC replacement, other significant upgrades</li> </ul>	780	0.3	1,039	\$700
Consumer Education*	<ul style="list-style-type: none"> <li>Expand functions of EnergyGuide audit</li> <li>Educational campaign to promote high efficiency cooling, appliances, etc.</li> <li>Translate materials into Spanish</li> </ul>	MT/Education campaign promotes a combination of home energy improvement measures.	<ul style="list-style-type: none"> <li>EnergyGuide used in several western states, many utilities (many use additional functionality)</li> <li>Additional functions allow quick audits, appliance comparisons, access to on-line energy products store, etc.</li> <li>Ability to expand reach to Spanish speaking customers (% of customer base)</li> </ul>	8,840	0.8	2,546	\$180
Home Diagnostics and Performance Testing	<ul style="list-style-type: none"> <li>Promote home comfort/efficiency tests</li> <li>Use contractors trained through Az Energy Mgmt Council – blower door, duct blaster, infrared, flowhoods</li> <li>Promote to customers, training/marketing for contractors</li> </ul>	Measures will vary depend on home diagnostics. May include reducing duct leakage, adding insulation, pressure balancing, HVAC repair or replacement, windows/shading, other measures.	<ul style="list-style-type: none"> <li>Used in several utilities nationwide</li> <li>Promotes market for diagnostic services</li> <li>Ability to target customers with comfort issues and high bills</li> <li>Targets poor performing existing housing stock</li> </ul>	246	0.1	197	\$50
High efficiency AC Promotion	<ul style="list-style-type: none"> <li>Shift message to 14 SEER and higher equipment</li> <li>Conduct co-op campaign with contractors and manufacturers</li> <li>Produce educational materials and promotional campaign</li> </ul>	Replacement of existing HVAC equipment with high efficiency.	<ul style="list-style-type: none"> <li>Addresses largest end use</li> <li>Energy and peak demand savings</li> <li>Federal standards increase to 12/13 SEER in 2006</li> <li>As available SEER has increased, higher SEER is less expensive and more cost effective for customers</li> <li>Continues a successful program. APS has provided over 14,000 customer referrals since 1998.</li> </ul>	19,712	4.2	25,669	\$200
Qualified Contractor Program	Current MT program - provides customer referrals to HVAC contractors who meet strict standards and participate in energy efficiency training courses.	Repair/tune-up/replacement of existing HVAC equipment and duct system.	Continues a successful program. APS has provided over 14,000 customer referrals since 1998.	6,000	0.2	360	\$100
TOU Program/Promotion	APS currently has one of the most successful TOU programs in the country with over 300,000 participants.	Promotion to help existing TOU customers get the best value from their rate.	Existing successful program that saves peak demand. Nevada is undertaking a similar TOU education campaign.	18,000	11.7	0	\$70
Explore Direct AC Load Control	<ul style="list-style-type: none"> <li>Explore potential for a pilot program</li> <li>AC compressor/thermostat controls</li> <li>"Next generation" improved controls</li> </ul>	Direct utility control of home HVAC system during peak load periods.	<ul style="list-style-type: none"> <li>Reduces peak demand</li> <li>Dispatchable</li> <li>Utah, Colorado, many other states</li> </ul>	100	0.2	0	\$100
<b>Measurement and Verification</b>	No M&V proposed for low income component. For existing residential consumer education and MT programs, conduct periodic surveys to gauge influence on market barriers and customer and market player awareness levels. For Qualified Contractor program, conduct phone surveys to identify work performed. For home performance testing, sample test results from participating contractors.						\$100
<b>TOTAL</b>				<b>53,678</b>	<b>17.6</b>	<b>29,831</b>	<b>\$1,500</b>

NOTE: Estimated spending levels do not include net lost revenue or any other financial incentive. All savings shown are preliminary estimates.

## DSM Workshop Proposal (APS) - Commercial/Industrial/Institutional Segment

Program Name	Description	DSM Measures	Other Considerations (Feasibility, market share, MT effect)	Participants (est./yr)	Est Annual Savings (MW)	Est Annual Savings (MWH)	Est Annual Spending (\$,000)
Energy Profile Information and Demand Response	<ul style="list-style-type: none"> <li>• Next-day load profile and analysis (large C&amp;I)</li> <li>• Help customers operate buildings most efficiently</li> <li>• Provide training and education</li> <li>• Combine with demand response program – provides incentives to customers for curtailing load on peak days</li> </ul>	Combination of measures will result from better understanding of facility energy demand and consumption. Better load management, identification and replacement of inefficient equipment, improved operations and maintenance, better energy controls.	<ul style="list-style-type: none"> <li>• Used at many utilities nationwide</li> <li>• Load profiles show opportunities for savings</li> <li>• Reduces demand/can be focused on peak demand</li> <li>• Provides value for customers, easily adopted</li> <li>• Helps existing facilities become more efficient</li> </ul>	50	4.4	9,500	\$150
Cool Roofs Program	<ul style="list-style-type: none"> <li>• Cool roofs could be promoted without incentives</li> <li>• Light colored, reflective materials – little or no extra cost</li> <li>• Education programs/materials for commercial customers</li> <li>• Offer training for building trades and roofing companies</li> <li>• Partner with manufacturers and distributors</li> </ul>	Promotes use of cool roofing materials to reduce building cooling loads.	<ul style="list-style-type: none"> <li>• Successful in other warm/hot climates</li> <li>• Reduces energy use and peak demand</li> <li>• Recommended in SWEET report</li> <li>• Cost effective</li> </ul>	1,000	0.2	12,364	\$150
Institute for Facility Management Education	<ul style="list-style-type: none"> <li>• New MT program for 2003 that provides commercial energy management education</li> <li>• Targeted to building operators and facility managers</li> <li>• Two 8 week courses and individual classes</li> <li>• Partnered with Electric League and Arizona Energy Office</li> </ul>	Combination of measures will result from better understanding of facility energy demand and consumption. Better load management, identification and replacement of inefficient equipment, improved operations and maintenance, better energy controls.	<ul style="list-style-type: none"> <li>• Successful in other states, good survey results from students to date</li> <li>• Additional funding needed to: <ul style="list-style-type: none"> <li>• Increase promotion/attendance</li> <li>• Improve training facility</li> <li>• Provide additional materials</li> <li>• Pay for expert instructors/field visits</li> <li>• Subsidize expenses to attract students</li> </ul> </li> </ul>	100	2.2	10,000	\$80
Design Assistance	<ul style="list-style-type: none"> <li>• Training seminars for commercial builders/designers</li> <li>• Energy simulations to show benefits of efficient specs</li> <li>• Use building science/systems approach</li> </ul>	Work with building designers during new construction and major renovations to specify more efficient thermal envelope, mechanical systems and equipment.	<ul style="list-style-type: none"> <li>• Utah, Nevada, other regional states</li> <li>• Targets customers at point where they can make the most cost-effective changes</li> <li>• Saves energy and peak demand</li> </ul>	13	1.2	4,940	\$250
Energy Efficient Schools Program	<ul style="list-style-type: none"> <li>• Program targeted to help public schools reduce their operating costs</li> <li>• Excess utility pool of funds to expire by 2008</li> <li>• Seminars, targeted training materials</li> <li>• Consider incentives</li> </ul>	Demonstration projects, training and design assistance targeted to schools. Will result in a variety of measures including improvements to envelope, mechanical systems and operations/building controls.	<ul style="list-style-type: none"> <li>• Saves energy and helps schools meet budgets</li> <li>• Represents over 800 large facilities in APS territory</li> <li>• Arizona Energy Office/ASU partnerships</li> </ul>	85	0.1	3,655	\$250
Power Partners	Existing program developed in conjunction with governor's summer 2001 conservation campaign. Voluntary C&I curtailment program for summer days that exceed 110 degrees.	Participants pledge to turn up thermostats, turn-off unnecessary lights and equipment, and shift the timing of energy-intensive tasks.	Continues an existing successful program.	100	0.2		\$20
<b>Measurement and Verification</b>	Follow-up surveys for all building operator students to determine actions taken, load profile analysis and tune-up for energy profile/demand response. sample modeling done for design assistance and cool roofs. ASU analysis for schools projects, survey for Power Partners participants, MT baseline and follow-up surveys to determine market barriers and awareness.						
<b>TOTAL</b>				<b>1,348</b>	<b>8.2</b>	<b>40,459</b>	<b>\$1,000</b>

NOTE: Estimated spending levels do not include net lost revenue or any other financial incentive. All savings shown are preliminary estimates.

# DSM Workshop - Proposed DSM Portfolio (APS)

DSM SPENDING	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Total DSM Spending (\$,000)	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$33,000
Residential Existing Homes/Low Income	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$16,500
Commercial New Construction	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$5,500
Commercial/Industrial/Institutional	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$11,000
Expenditure Impact on Rates (%)												
ENERGY/DEMAND SAVINGS												
Cumulative Annual Effect (mW)	44.7	89.4	134.1	178.8	223.5	268.2	312.9	357.6	402.3	447.0	491.7	491.7
Annual Peak Demand Savings (mW)	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
Residential Existing Homes/Low Income	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
Residential New Construction	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
Commercial/Industrial/Institutional	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Cumulative Annual Effect (mWh)	102,690	205,380	308,070	410,760	513,450	616,140	718,830	821,520	924,210	1,026,900	1,129,590	1,129,590
Annual Energy Savings (mWh)	102,690	102,690	102,690	102,690	102,690	102,690	102,690	102,690	102,690	102,690	102,690	102,690
Residential Existing Homes/Low Income	29,831	29,831	29,831	29,831	29,831	29,831	29,831	29,831	29,831	29,831	29,831	29,831
Commercial New Construction	32,400	32,400	32,400	32,400	32,400	32,400	32,400	32,400	32,400	32,400	32,400	32,400
Commercial/Industrial/Institutional	40,459	40,459	40,459	40,459	40,459	40,459	40,459	40,459	40,459	40,459	40,459	40,459
Lifetime Energy Savings (mWh)												
COST EFFECTIVENESS												
Spending per kW peak savings (\$/kW)	67	67	67	67	67	67	67	67	67	67	67	Average 67
Spending per annual kWh savings (\$/kWh)	0	0	0	0	0	0	0	0	0	0	0	0
Spending per lifetime kWh savings (\$/kWh)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

NOTE: Estimated spending levels do not include net lost revenue or any other financial incentive.